

**AMENDMENT TO THE CLAIMS:**

The following claim set replaces all prior versions, and listings, of claims in the application:

1. (currently amended) Process for the preparation of a block copolyetherester elastomer comprising polyester blocks and poly(alkylene oxide) polyol blocks, wherein at least one aromatic dicarboxylic acid or an ester-forming derivative thereof, at least one alkylene diol, and a poly(alkylene oxide) polyol, comprising [[an]] ~~a~~ poly(propylene oxide), end capped with ethylene oxide, are esterified, and wherein ~~characterized in that:~~  
the poly(alkylene oxide) polyol has an ethylene oxide content of between 22 and 90% by weight, relative to the total weight of the poly(alkylene oxide) polyol, and  
the poly(alkylene oxide) polyol has an unsaturation content, being the total content of vinyl and allyl groups, of less than 35 meq per kg poly(alkylene oxide) polyol.
2. (original) Process according to claim 1, wherein the poly(alkylene oxide) polyol has an Mn of between 2500 and 5000 g/mol.
3. (previously presented) Process according to claim 1, wherein the poly(alkylene oxide) polyol has an ethylene oxide content between 30 and 70 % by weight, relative to the total weight of the poly(alkylene oxide) polyol.
4. (currently amended) Process according to claim 1, wherein the poly(alkylene oxide) polyol has an unsaturation content, being the total content of vinyl and allyl groups, of less than 30 meq per kg, ~~, preferably less than 25 meq per kg~~  
poly(alkylene oxide) polyol.

5. (previously presented) Process according to claim 1, wherein
  - a) the poly(alkylene oxide) polyol has an ethylene oxide content of between 30 and 70 % by weight,
  - b) the poly(alkylene oxide) polyol has an unsaturation content, being the total content of vinyl and allyl groups, of less than 25 meq per kg poly(alkylene oxide) polyol, and
  - c) the poly(alkylene oxide) polyol has an Mn of between 2500 and 5000 g/mol.
6. (previously presented) Process according to claim 1, wherein in the block copolyetherester:
  - d) the ratio by weight of poly(alkylene oxide) polyol/aromatic dicarboxylic acid or an ester-forming derivative thereof is between 60/40 and 90/10;
  - e) the average degree of polymerization of the polyester block is at least 3.5 ; and
  - f) the block copolyetherester elastomer has an Mn of at least 25,000 g/mol.
7. (currently amended) Block copolyetherester elastomer comprising polyester blocks and poly(alkylene oxide) polyol blocks, ~~obtainable obtained~~ by esterification of at least one aromatic dicarboxylic acid or an ester-forming derivative thereof, at least one alkylene diol, and a poly(alkylene oxide) polyol, comprising a poly(propylene oxide) end capped with ethylene oxide, wherein characterized in that
  - a) the poly(alkylene oxide) polyol has an ethylene oxide content of between 22 and 90 % by weight;
  - b) the block copolyetherester elastomer has a an unsaturation content, being the total content of vinyl and allyl groups, of less than 35 meq per kg of the poly(alkylene oxide) polyol;
  - c) the poly(alkylene oxide) polyol has a Mn of between 2500 and 5000 g/mol;

- d) in the blockcopolypolyetherester elastomer the ratio by weight of poly(alkylene oxide) polyol/aromatic dicarboxylic acid or the ester-forming derivative thereof is between 50/50 and 90/10;
- e) the average degree of polymerization of the polyester block is at least 3.5; and
- f) the block copolyetherester elastomer has an Mn of at least 25,000 g/mol.

8. (currently amended) A block copolyetherester elastomer according to claim 7, wherein the alkylene diol is ~~1,4-butene~~ 1,4-butane diol.

9. (currently amended) A block copolyetherester elastomer according to claim 7 wherein the polyester blocks comprise the aromatic dicarboxylic acid or the ester-forming derivative thereof is butylene terephthalate.

10. (previously presented) A block copolyetherester elastomer according to claim 7, wherein the poly(alkylene oxide) polyol has an Mn of between 3000 and 5000.

11. (previously presented) A block copolyetherester elastomer according to claim 7 having a vinyl content of less than 15 meq per kg of the poly(alkylene oxide) polyol.

12. (previously presented) A block copolyetherester elastomer according to claim 7 having an Mn of at least 35,000 g/mol.

13. (previously presented) Composition comprising a block copolyetherester elastomer according to claim 7 and at least one additive.

14. (currently amended) An elastic fiber or file which comprises ~~Use of~~ a block copolyetherester elastomer according to claim 7 in an elastic fiber or film.

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15. (previously presented) Product comprising at least one block copolyetherester elastomer according to claim 8, the product preferably being an elastic fiber or film.
16. (new) Process according to claim 1, wherein the poly(alkylene oxide) polyol has an unsaturation content, being the total content of vinyl and allyl groups, of less than 25 meq per kg poly(alkylene oxide) polyol.